1   **ABSTRACT OF THE DISCLOSURE**

2   A link quality estimating method and apparatus adopts a fading value to

3   modify an estimated link quality of a channel thereby obtaining a measure being

4   very close to the real link quality. The method is implemented by utilizing two

5   sequentially received long training symbols to derive two sets of subcarrier gain

6   values $H_{k,1}$ and $H_{k,2}$. Based on the subcarrier gain values $H_{k,1}$ and $H_{k,2}$, parameters

7   representing the estimated channel gain value (A), the fading value (F) and the

8   noise quantity (B) of the channel are all calculable. With these parameters, the

9   link quality (LQ) of said communication channel is derived.